

SURE SHIELD® **MERV-13 Dual Layer Pleated Filters** **1", 2" & 4"**



New Dual Layer Technology!

There is no wrong way to install this filter- airflow can come from either direction!

SURE SHIELD® MERV-13 Dual Layer Pleated Filters are engineered with superior performance criteria in all facets of filtration including efficiency, resistance, and dust-holding capacity to address today's challenging HVAC system requirements. As part of the most advanced and innovative line of HVAC filtration products, the **SURE SHIELD®** MERV-13 Dual Layer Pleated Filter combines an excellent initial and life-cycle resistance with a high dust-holding capacity. This combination provides optimum filter performance- creating the energy and operating cost savings desired in the demanding HVAC market. The **SURE SHIELD®** MERV-13 Dual Layer Pleated Filter is backed by the outstanding customer service and on-time delivery that customers have come to expect from Columbus Industries.

Description and Benefits

The **SURE SHIELD®** MERV-13 Dual Layer Pleated Filter provides functional high-efficiency performance at an economical cost. Columbus Industries' uniquely engineered filter media and geometrically designed pleat element combine to provide one of the industry's best performing MERV-13 Dual Layer Pleated filters. This new design encapsulates the expanded metal in between two layers of media which allows the filter to be installed in any direction while not affecting airflow.

These high-performance filters help to improve indoor air quality and remove contaminants from HVAC environments. The **SURE SHIELD®** MERV-13 Dual Layer Pleated Filter is engineered to protect both expensive HVAC equipment and workers from dirty air and its damaging effects. The user-friendly filter is also lightweight, durable and easy to install in any direction. The dual layer provides an extra layer of media so those handling installation will not cut themselves on the expanded metal as it is now situated between two layers of media.

SURE SHIELD® MERV-13 Dual Layer Pleated Filters' engineered media is encapsulates expanded metal between two layers of media. The media is then formed into a geometrically designed pleat element and sealed in a moisture-resistant kraft board frame. Each stage of the assembly process is quality controlled to ensure the performance, consistency and durability of each filter. These design and construction features combine to produce the best all-around performance in airflow, efficiency and dust-loading uniformity.

Looking for LEED certification? The **SURE SHIELD®** MERV-13 Dual Layer Pleated Filter is the perfect solution if you want to specify or upgrade your current filtration to meet LEED certification requirements. With these performance filters, your facility can gain points toward LEED certification- without incurring large operating costs increases. The **SURE SHIELD®** MERV-13 Dual Layer Pleated Filter meets efficiency standards outlined in the LEED program for new construction and existing booths.

Quick Facts

Features:

- Expanded metal encapsulated in-between two layers of media Provides lower initial resistance
- Provides lower energy consumption
- Provides lower operating cost
- Provides easy installation
- Meets requirements for LEED certification
- Provides economical upgrade for higher filtration requirements

Applications:

- Commercial and industrial facilities
- Pharmaceutical
- Government and educational facilities
- Hospitals
- Paint booth/finishing

Technical Information:

- Available in 1", 2", and 4" depth in a variety of standard sizes
- Available in high-capacity configurations only
- Tested in accordance with ASHRAE Test Standard 52.2-2017
- UL Standard 900 tested and approved
- 100% synthetic media
- Temperature rated up to 160°F

SURE SHIELD® MERV-13 Dual Layer Pleated Filters

1", 2" & 4"

Nominal Size	Exact Size	Rated Air Flow Capacity (CFM)		Initial Air Flow Resistance (in w.g.)		Media Area (SF)
		Med	High	Med	High	
12 x 24 x 1	11-1/2 x 23-1/2 x 3/4	600	800	0.31	0.46	3.8
16 x 20 x 1	15-1/5 x 19-1/2 x 3/4	670	890	0.31	0.46	4.3
16 x 25 x 1	15-1/2 x 24-1/2 x 3/4	830	1110	0.31	0.46	5.4
20 x 20 x 1	19-1/2 x 19-1/2 x 3/4	830	1110	0.31	0.46	5.2
20 x 24 x 1	19-1/2 x 23-1/2 x 3/4	1000	1330	0.31	0.46	6.3
20 x 25 x 1	19-1/2 x 24-1/2 x 3/4	1040	1390	0.31	0.46	6.5
24 x 24 x 1	23-1/2 x 23-1/2 x 3/4	1200	1600	0.31	0.46	7.6
12 x 24 x 2	11-3/8 x 23-3/8 x 1-3/4	600	1000	0.19	0.37	8.8
16 x 20 x 2	15-1/2 x 19-1/2 x 1-3/4	670	1110	0.19	0.37	9.8
16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4	830	1390	0.19	0.37	12.2
20 x 20 x 2	19-1/2 x 19-1/2 x 1-3/4	830	1390	0.19	0.37	12.2
20 x 24 x 2	19-3/8 x 23-3/8 x 1-3/4	1000	1670	0.19	0.37	14.6
20 x 25 x 2	19-1/2 x 24-1/2 x 1-3/4	1040	1740	0.19	0.37	15.3
24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4	1200	2000	0.19	0.37	17.5
12 x 24 x 4	11-3/8 x 23-3/8 x 3-3/4	600	1000	0.17	0.30	13.8
16 x 20 x 4	15-1/2 x 19-1/2 x 3-3/4	670	1110	0.17	0.30	15.7
16 x 25 x 4	15-1/2 x 24-1/2 x 3-3/4	830	1390	0.17	0.30	19.6
20 x 20 x 4	19-1/2 x 19-1/2 x 3-3/4	830	1390	0.17	0.30	18.9
20 x 24 x 4	19-3/8 x 23-3/8 x 3-3/4	1000	1670	0.17	0.30	22.6
20 x 25 x 4	19-1/2 x 24-1/2 x 3-3/4	1040	1740	0.17	0.30	23.6
24 x 24 x 4	23-3/8 x 23-3/8 x 3-3/4	1200	2000	0.17	0.30	27.7

*Call for additional sizes

Filter Depth	Rated Air Flow Capacity (CFM)		Initial Resistance Air flow (in w.g.)		Pleats per Linear Foot
	Med	High	Med	High	
1"	1200	1600	0.31	0.46	16
2"	1200	2000	0.19	0.37	15
4"	1200	2000	0.17	0.30	11

